

**Notice of Allowability**

Application No.

10/667,466

Examiner

Faye Polyzos

Applicant(s)

HEISMANN ET AL

Art Unit

2884

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 15 February 2006.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

### ***Comment on Submissions***

1. This communication is responsive to submissions 15 February 2006.

### ***Allowable Subject Matter***

2. Claims 1-30 are allowed.
3. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, the prior art does not disclose or fairly suggest a an image detector for detecting electromagnetic radiation, comprising at least two carrier layers and corresponding photosensors stacked alternately forming a single multilayer image detector.

The examiner notes that while it is known in the art of an image detector for detecting electromagnetic radiation, comprising: a carrier layer (86); and a photosensor (individual detector elements), carried by the carrier layer, wherein each of the carrier layer and photosensor include a nonvanishing transparency to the electromagnetic radiation, and wherein at least two carrier layers (86)(88) and corresponding photosensors (individual detector elements) are stacked that the electromagnetic radiation is passable through them (*see for example – Sones et al -- US 4,709,382 -- Figs. 3-6 and col. 4, lines 64-67 and col. 9, lines 63-68 and col. 10, lines 1-15*), the prior art does not suggest of a single multilayer image detector formed by stacked alternating carrier layers (at least 2 carrier layers) and photosensors, such that electromagnetic radiation is passable one after another.

Regarding independent claim 26, the prior art does not disclose or fairly suggest a an image detector for detecting electromagnetic radiation, comprising a plurality of stacked carrier layers where each carrier layer includes at least one photosensor wherein the plurality of carrier layers are stacked alternately on one another to form a single multilayer image detector, such that the electromagnetic radiation is passable there-through, one after another.

The examiner notes that while it is known in the art of an image detector for detecting electromagnetic radiation, comprising: a carrier layer (86); and a photosensor (individual detector elements), carried by the carrier layer, wherein each of the carrier layer and photosensor include a nonvanishing transparency to the electromagnetic radiation, and wherein at least two carrier layers (86)(88) and corresponding photosensors (individual detector elements) are stacked that the electromagnetic radiation is passable through them (*see for example – Sones et al -- US 4,709,382 -- Figs. 3-6 and col. 4, lines 64-67 and col. 9, lines 63-68 and col. 10, lines 1-15*), the prior art does not suggest of a single multilayer image detector formed by stacked alternating carrier layers (at least 2 carrier layers) and photosensors, such that electromagnetic radiation is passable one after another.

The remaining claims 2-25 and 27-30 are allowable based on their dependency.

### **Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faye Polyzos whose telephone number is 571-272-


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2447. The examiner can normally be reached on Monday thru Friday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FP



DAVID PORTA  
SUPERVISORY PATENT EXAMINER  
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